

BOR \$1,000,000 Research Pool

The \$1,000,000 in research funding appropriated annually to the Board of Regents is utilized to fund two competitive research and development infrastructure building programs geared towards driving economic development in the five industry sectors identified in the [2020 Vision: The South Dakota Science and Innovation Strategy](#)¹.

1. The ***R&D Innovation Grant Program*** is designed to aid institutions in making strategic investments in R&D infrastructure. Institutions may apply for up to \$200,000 of the \$700,000 available annually.
2. The ***R&D Collaboration Grant Program*** seeks to strengthen SD's research infrastructure through the provision of long-term capacity building resources for multi-institutional research collaborations. Multi-institutional collaborations may apply for up to \$900,000 over a three year period.

Both programs solicit proposals through a competitive process, with proposals reviewed by a panel comprised of representatives from the Legislature, Board of Regents, Governor's Office of Economic Development and the State EPSCoR Office. The two programs have had a significant impact on South Dakota's R&D infrastructure in their short four years of existence.

R&D Innovation Grant Program – through FY17

- 20 awards totaling \$2.8M were leveraged to garner an upfront match of \$3.9M, and an additional \$3.38M in subsequent awards.
- Examples of projects made possible through this program include:
 - o Establishment of the ***BHSU Underground Campus*** at the 4850' level of the Sanford Underground Research Facility – resulted in a \$258,113 NSF REU Award.
 - o Multi-year ***Human Nutrition and Wellness Collaboration*** between Sanford Health and SDSU – resulted in over \$900K in additional federal awards.
 - o Significant ***Cyber-Security Research Infrastructure*** enhancements at DSU, which have served to advance their relationship with the NSA – resulted in over \$900K in federal funding.
 - o Acquisition of a ***High Performance Computing Cluster*** at USD.
 - o Creation of ***Laboratories for Large Scale Production of Electrospun Nanofibers and Electrochemical Testing of Energy Storage and Generation Devices*** at SDSMT, resulted in \$800,000 in NASA funding and \$167,000 from industry collaboration.

R&D Collaboration Grant Program – through FY17

- The Center for ***Security Printing and Anti-Counterfeiting Technology (SPACT)***, which is comprised of researchers from SDSMT, USD and SDSU, was established in December of 2014 as a result of a three year, \$900K award under this program.
 - o SPACT has secured over \$1.7M in external funding, with an additional \$2M in pending proposals.
- The ***Surface Engineering Research Center (SERC)***, which is comprised of researchers from SDSMT, SDSU and USD, was established in FY17 as result of a three year, \$900,000 award under this program.
 - o SERC secured over \$900K in external funding awards in year 1.

¹ Value Added Agriculture and Agribusiness; Energy and Environment; Materials and Advanced Manufacturing; Human Health and Nutrition; and Information Technology/Cyber-Security/Information Assurance.